Qty:

: BRACKET ASSEMBLY

: D3183044

: 1/12/2008

: N/A

: C1

: D3183 REV C1

Tuesday, 12/18/2007 10:46:07 AM

Kim Johnston

Process Sheet

Drawing Name

Part Number

Material

Due Date

Drawing Number

Project Number

Drawing Revision

Customer

: CU-DAR001 Dart Helicopters Services

Job Number

: 36400

Estimate Number

: 10291

P.O. Number This Issue

: 12/18/2007

: NC

Prsht Rev.

First Issue Previous Run : 11

S.O. No. :

Type

: MACHINED PARTS

: 34514

Written By Checked & Approved By

Comment

Additional Product

: Est Rev:Pick:A 04.02.18

New issue KJ/DS

Um: Each

Job Number:



Seq. #:

Machine Or Operation:

Description: 17-4 SS Bar

10

M174B2000X01500

Comment: Qty.:

0.4812 f(s)/Unit

Total: 3.8497 f(s)

Material: 17-4 SS Bar per AMS 5604/5643

(M17-4-B1.500x02.000) Identify for D3183-4 Batch: 11478

20

BAND SAW

BAND SAW



Comment: BAND SAW

Cut blanks: (1.500" x 2.000") 5.500" long

3.0

40

HAAS CNC VERTICAL MACHINING #1





Comment: HAAS CNC VERTICAL MACHINING #1

1-Machine D3183-4 as per Folio FA322 and Dwg D3183 Identify as D3183-4

2-Deburr

QC2

3-Scribe batch number

Comment: INSPECT PARTS AS THEY COME OFF MACHINE



14634ay, 12/10/200/ 10.40.0/ AM User Kim Johnston **Process Sheet** Customer: CU-DAR001 Dart Helicopters Services Drawing Name: BRACKET ASSEMBLY Job Number: 36400 Part Number: D3183044 Job Number: Seq. #: Machine Or Operation: Description: 5.0 QC8 SECOND CHECK Comment: SECOND CHECK (13) 6.0 D312121 Comment: Qty.: 2.0000 Each(s)/Unit Total: 16.0000 Each(s) Pick: Qty Part Number Description Batch Bolt B36608X26 2 D3121-21 ml 08/01/20 7.0 D3183045 Bearing Assembly Comment: Qty.: 16.0000 Each(s) 2.0000 Each(s)/Unit Total: B36638X18 Pick: **Qty Part Number** Description Batch 2 D3183-045 Bearing Ass B36369X8 mf 08/01/20 8.0 SMALL & MEDIUM FAB RESOURCE 1 Comment: SMALL & MEDIUM FAB RESOURCE 1 Assemble D3183-043 as per Dwg D3183. 9.0 QC5 INSPECT WORK TO CURRENT STEP Comment: INSPECT WORK TO CURRENT STEP 100 PACKAGING RESOURCE #1 Comment: PACKAGING RESOURCE #1 Identify and Stock Location: 11.0 Comment: FINAL INSPECTION/W/O RELEASE A08.01.21 Job Completion mi 2008/1/21

Page 2

DART AEROSPACE LTD	Work Order:	36400
Description: Bracket	Part Number:	D3183-4
Inspection Dwg: D3183 Rev: C1		Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

X First Article Prototype

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
R0.190	+/-0.030				mspection	
R0.063	+/-0.030	R 190				
0.182		1.063	-			
0.070	+/-0.010	181	/			
0.100	+/-0.010	-070				
Ø0.201 x 0.100	+/-0.010 +/-0.010	106				
0.182	+/-0.010	d200 x099	-			
5.32	+/-0.030	187				
5.036	+/-0.010	5.327				
2.120	+/-0.010	5.036				
1.290	+/-0.010					
0.365	+/-0.010	1.388	1			
0.218	+/-0.010	. 567				
1.030	+/-0.010	.216	/			
1.90	+/-0.030	1.040	-			
1.012	11107 043014-1207121-1	1850	-			
Ø0.201 x 0.100	+/-0.010	1.0/2			92	
0.182	+/-0.010	D. 200 X100	/			
0.786	+/-0.010	,182				
	+/-0.010	79°C			N. C.	
Ø0.392	+0.002/-0.000	7	/_			
R0.19	+/-0.030	R.150				
3.954	+/-0.010	3.155				
0.162	+/-0.010	-/62	/			
R0.19	+/-0.030	1.190				
R0.25	+/-0.030	R.25	/			
4.26	+/-0.030	4.265	/			
2.800 Calculated dimension	+/-0.030	2.800)	/			
0.162	+/-0.010	.162	/			
0.615	+/-0.010	-620	/			
0.435	+/-0.010	.431				
0.200	+/-0.010	·200	/			
0.381	+/-0.010	. 383				10
0.032	+/-0.010	.632	/			

Measured by:	Audited by:	Prototype Approval:	N/A
Date: 08/01/12	Date: 08/1/12	Date:	N/A

11.12			
11.12	New Issue P/O D3183-044	Revised by	Approved
		KJ/RF	
13.13	Changes as per revision C	KJ/JLM/RF	
16.15	Dimension 2.800 was 2.080; removed 1.155, 0.36 dimensions	K I/II M	1
03.09	Dwg Rev update	- A	Sulf
)	3.15 6.15	3.15 Changes as per revision C 6.15 Dimension 2.800 was 2.080; removed 1.155, 0.36 dimensions 3.09 Dwg Rev update	3.15 Changes as per revision C KJ/JLM/RF 6.15 Dimension 2.800 was 2.080; removed 1.155, 0.36 dimensions KI/JLM

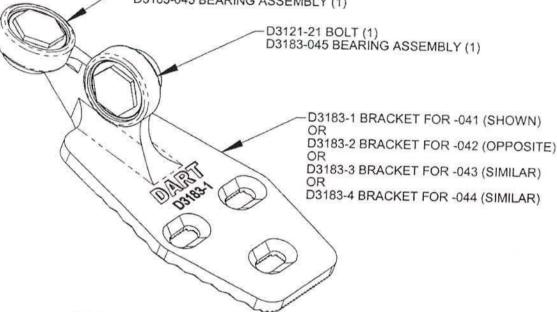




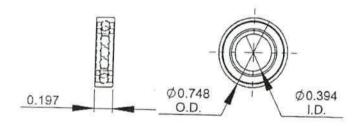
CI

D	ESIGN	DRAWN BY	DART AEROSPACE HAWKESBURY, ONTARIO, CA	LTD	
	HECKED	APPROVED	DRAWING NO. D3183	REV. C	
DA	04.02.17		BRACKET ASSEMBLY	SCALE	
2	A	03.01.24	NEW ISSUE		
	В	03.06.17	REMOVE BEARING; 1.012 WS 0.88	32	
(С	,04.02.17	ADD -045/-9: 0.182 WAS 0.431		

04.11.09 0.830 WAS 0.850 D3121-21 BOLT (1) D3183-045 BEARING ASSEMBLY (1)



D3183-041 BRACKET ASSEMBLY (SHOWN)
D3183-042 BRACKET ASSEMBLY (OPPOSITE)
D3183-043 BRACKET ASSEMBLY (SIMILAR) D3183-044 BRACKET ASSEMBLY (SIMILAR)



D3183-5 BEARING: SPECIFICATION CONTROL DRAWING

1) SINGLE ROW, DEEP GROOVE. CONRAD TYPE, SHIELDED

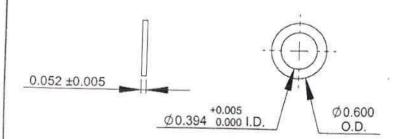
2) POSSIBLE SUPPLIER: NSK P/N 680022

3) ALL DIMENSIONS ARE IN INCHES

WORK ORDER

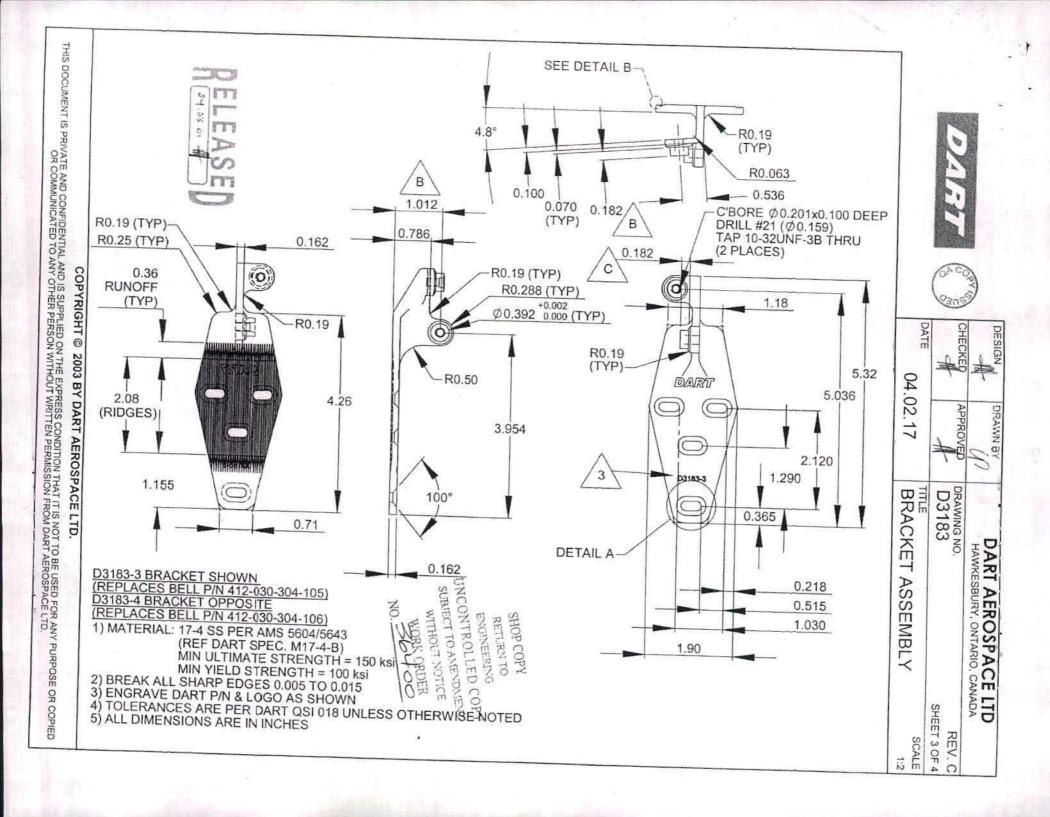
D3183-7 WASHER

- 1) MATERIAL: AISI 303 ROUND BAR (M303R) ANNEALED
- 2) BREAK ALL SHARP EDGES 0.005 TO 0.010
- 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) ALL DIMENSIONS ARE IN INCHES



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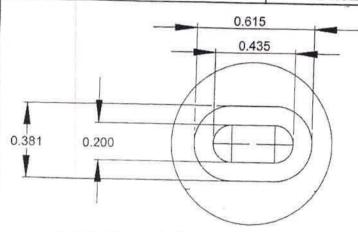
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DESIGN	DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
CHECKED	APPROVED	D3183	REV. C		
DATE 04.	.02.17	BRACKET ASSEMBLY	SCALE		



DETAIL A (2:1)

DETAIL B (20:1)

0.747 ±0.001

R0.010

 0.199 ± 0.001

R0.031

0.276

SECTION C-C SCALE 2:1

0.039

-0.850

0.830

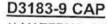
/c1

0.720

±0.002

0.050 (TYP) 0.025 (TYP) 0.032 SHOP COPY RETURN TO ENGINEERING

UNCONTROLLED COPY SUBJECT TO AMENDMENT WITHOUT NOTICE WORK ORDER 36400



- 1) MATERIAL: DELRIN ROD, Ø1.00 (REF DART SPEC. M-DELRIN-R1.00) 2) TOLERANCES ARE PER DART QSI 018
- UNLESS OTHERWISE NOTED 3) ALL DIMENSIONS ARE IN INCHES

D3183-045 BEARING ASSEMBLY

1) ASSEMBLE D3183-5 BEARING AND D3183-9 CAP

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Dart Aerospace Ltd

W/O:		WORK ORDER CH	ANGES				{\ e
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
		=					

Part No:	PAR #:	Fault Category:	NCR: Yes No	DQA:	Date: 08-01-21	
			QA: N/C CI	osed:	Date:	_

NCR:		W	ORK OR	DER NON-CONFORMANCE	(NCR)				
		Description of NC		Corrective Action Section B	Verification Ap		Annroval	val Annroval	
DATE	STEP	Section A	Initial Chief Epg	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector	
\$1,01,13	0.2	out of is.		Scrap and Destry ons Replace Oty XI Batch M19478	12				
26.00		Rc. Mat. Am. corners		and Replace at 1	080117	7	Pasions	9	
		Rc. Mat. formers hos Round.	Varius 2	Batch M19478		06/01/16	,	08/01/1	
						*1			

NOTE: Date & initial all entries